

The Pauropoda and Symphyla of the Geneva Museum VIII. Pauropoda collected in Greece by D^r Bernd Hauser (Myriapoda)

by

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With 1 figure

ABSTRACT

Thirteen Pauropoda species are listed from Greece. Two of them, *Allopaupopus* (*Decapaupopus*) *rostratus* Krestewa and *Eurypaupopus* *hastatus* Attems, are not earlier known from there. The Greek distribution of several species is widened, particularly in the southern islands.

INTRODUCTION

Thirty species of Pauropoda were known earlier from Greece (SCHELLER 1977), but others occur, for there are still no records of collections from many parts of the country. However, Dr. Bernd Hauser, curator of the Arthropoda section of the Natural History Museum in Geneva, has continued his valuable collecting throughout Greece. The material brought together in 1976-1979, 108 specimens, is accounted for below.

SYSTEMATICS

Family PAUROPODIDAE

Subfamily PAUROPODINAE

Genus *Allopaupopus* Silvestri, 1902

Subgenus *Allopaupopus* s. str.

1. *Allopaupopus* (A.) *danicus* (Hansen, 1902)

Vidensk. Meddr dansk naturh. Foren. 1901: 376-378, pl. III, figure 4a-f.

Material examined. 32 specimens.

Distribution. PELOPONNESUS. Panachaikon Massif, above Kastrition, alt. 1000 m, soil sample from under *Abies cephalonica*, Berlese extraction, 4 ad. 9¹ (♀), 1 subad. 8 (♂), 3 juv. 6, 1 juv. 5, 1 juv. 3, 1976-05-12 (Loc. The-76/3).

CENTRAL GREECE. Acarnania, near Astakos, alt. 120 m, soil sample from under *Quercus* sp., Berlese extraction, 1 ad. 9 (♀), 2 subad. 8 (♂, ♀), 1976-05-16 (Loc. The-76/25).

ATTICA and EUBOEA. Mount Parnis, north slope, dry valley, alt. 860 m, litter from under *Abies cephalonica*, Berlese extraction, 1 ad. 9 (♀), 1976-05-15 (Loc. The-76/21).

THESSALY. Ossa Massif, near the cave Profitis Elias, soil sample from under *Quercus coccifera*, Berlese extraction, 5 ad. 9 (4 ♂, 1 ♀), 5 subad. 8 (1 ♂, 4 ♀), 1978-04-10 (Loc. Kri-78/29).

SOUTHERN ISLAND ARC. Crete, at the road Sitia-Iraklion, small ravine near Sfaka, alt. 200 m, soil sample from under *Quercus coccifera*, Berlese extraction, 1979-03-13, 1 ad. 9(♀), 1 subad. 8(♀), (Loc. Kar-79/12a), and 1 ad. 9(♂), 1 subad. 8(♂) (Loc. Kar-79/12b). Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Pinus brutia*, Berlese extraction, 1 ad. 9(♂), 2 subad. 8(♀), 1 juv. 6, 1979-03-12, (Loc. Kar-79/8b).

Though the species is common it was not earlier known from the southern islands.

Subgenus *Decapauropus* Remy, 1957

2. *Allopauropus* (D.) *aristatus* Remy, 1936

Archs Zool. exp. gén. 78: 19-22, figs. 6-9.

Material examined. 3 specimens.

Distribution. CENTRAL GREECE. Acarnania, near Astakos, alt. 120 m, soil sample from under *Quercus* sp., Berlese extraction, 1 subad. 8(♀), 1 juv. 6, 1 juv. 5, 1976-05-16 (Loc. The-76/25).

The species is rare in Greece. It was earlier known from two localities only: Cephalonia in the Ionian Islands and Kalabaka in Thessaly.

3. *Allopauropus* (D.) *corsicus* Remy, 1940

Bull. Soc. zool. Fr. 65: 48-50, figs. 2-4.

Material examined. 1 specimen.

Distribution. SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Pinus brutia*, Berlese extraction, 1 ad. 9(♀), 1979-03-12 (Loc. Kar-79/12a).

The species seems to be rare. A single specimen was earlier known from Epirus.

4. *Allopauropus* (D.) *cuenoti* (Remy, 1931)

Archs Zool. exp. gén. 71: 67-83, figs. 1-12.

Material examined. 11 specimens.

¹ Abbreviations: ad. ..., subad. ... and juv. ..., an adult, a subadult or a juvenile specimen with the number of pairs of legs indicated.

Distribution. CENTRAL GREECE. Phocis, Vardousia Mts., in the vicinity of Athanassios Diakos, near Profitis Elias, alt. 1470 m, moss sample from under *Abies cephalonica*, Berlese extraction, 1 ad. 9(♀) (Loc. Kar-79/3b). Between Arachova and Eptalaphos, near the parting of the road to the ski station, soil sample from under *Abies cephalonica*, Berlese extraction, 1 ad. 9(♂), 1976-05-13 (Loc. The-76/10).

THESSALY. Ossa Massif, near the cave Profitis Elias, soil sample from under *Quercus coccifera*, Berlese extraction, 1 ad. 9(♂), 1978-04-10 (Loc. Kri-78/29). Same place, Mount Psylodendron, alt. 1140 m, soil sample from under *Cupressus* sp., Berlese extraction, 1 ad. 9(♀), 1978-04-11 (Loc. Kri-78/33).

SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Pinus brutia*, Berlese extraction, 1 ad. 9(♀), 2 subad. 8(♀), 3 juv. 6, 1 juv. 5, 1979-03-12 (Loc. Kar-79/8b).

The species was not earlier known from Central Greece and Thessaly.

5. *Allopaupopus* (D.) *gracilis* (Hansen, 1902)

Vidensk. Meddr dansk naturh. Foren. 1901: 395-397, pl. V, fig. 3a-f.

Material examined. 24 specimens.

Distribution. PELOPONNESUS. Between Sparta and Kalamata, alt. 920 m, near the road, calcareous soil, sample from under *Platanus* sp., 1 ad. 9(♀), 1 subad. 8(♀), 1976-05-20 (Loc. The-76/31). Panachaikon Massif, near Kastritsion, alt. c. 580 m, soil sample from under *Quercus coccifera*, Berlese extraction, 1 ad. 9(♀), 1 subad. 8(♀), 1978-03-31 (Loc. Kri-78/2).

CENTRAL GREECE. Acarnania, near Astakos, alt. 120 m, soil sample from under *Quercus* sp., Berlese extraction, 1 subad. 8(♂), 1 juv. 6, 1 juv. 5, 1976-05-16 (Loc. The-76/25). Between Arachova and Eptalophos, near the parting of the road to the ski station, soil sample from under *Abies cephalonica*, Berlese extraction, 1 ad. 9(♀), 1976-05-13 (Loc. The-76/10). Elikon Massif, forest pasture at the road between Kiriaki and Koukoura, alt. 950 m, soil sample from under *Quercus coccifera*, Berlese extraction, 1 ad. 9(♂), 1977-04-20 (Loc. Cy-77/20).

ATTICA and EUBOEA. Mount Parnis, north slope, dry valley, alt. 860 m, sample from under decaying trunk, Berlese extraction, 1 ad. 9(♀), 1976-05-15 (Loc. The-76/20).

THESSALY. Ossa Massif, near the cave Profitis Elias, soil sample from under *Quercus coccifera*, Berlese extraction, 1 ad. 9(♂), 1978-04-10 (Loc. Kri-78/29).

SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Pinus brutia*, Berlese extraction, 1 ad. 9(♀), 1 subad. 8(♀), 1 juv. 6, 1979-03-12 (Loc. Kar-79/8b). Same place, soil sample from under *Ceratonia siliqua*, Berlese extraction, 2 subad. 8(♀), 3 juv. 6, 1979-03-12 (Loc. Kar-79/9b).

The species seems to be widely distributed in Greece but it was not earlier reported from the southern islands.

6. *Allopaupopus* (D.) *helveticus* (Hansen, 1902)

Vidensk. Meddr dansk naturh. Foren. 1901: 390-392, pl. IV, fig. 5a-e.

Material examined. 4 specimens.

Distribution. PELOPONNESUS. Panachaikon Massif, above Kastrition, alt. 1000 m, soil sample from under *Abies cephalonica*, Berlese extraction, 2 ad. 9(♀), 1 juv. 6, 1976-05-12 (Loc. The-76/3).

SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Ceratonia siliqua*, Berlese extraction, 1 juv. 6, 1979-03-12 (Loc. Kar-79/9b).

Not earlier known from the southern islands.

7. *Allopaupopus* (D.) *productus* Silvestri, 1902

In BERLESE, A.: *Acari, Myriopoda et Scorpiones hucusque in Italia reperta*, 10, Fasc. 95, No. 9. Padua.

Material examined. 6 specimens.

Distribution. PELOPONNESUS. Between Dara and the parting of the road Vitina/Levidi, alt. 590 m, soil sample from under *Quercus coccifera*, Berlese extraction, 3 juv. 6, 1 juv. 5, 1977-04-21 (Loc. Cy-77/28).

CENTRAL GREECE. Acarnania, near Astakos, alt. 120 m, soil sample from under *Quercus* sp., Berlese extraction, 1 subad. 8(♀), 1976-05-16 (Loc. The-76/25).

SOUTHERN ISLAND ARC. Crete, W Sitia, Faneromeni Peninsula, alt. 5 m, from under tamarisks at a pond with salty water, 1 juv. 6, 1979-03-10 (Loc. Kar-79/7a).

Though collected in several Greek localities the species was not earlier known from the above regions.

8. *Allopaupopus* (D.) *rostratus* Krestewa, 1940 (Fig. 1)

Mitt. bulg. ent. Ges. Sofia 11: 176-177, 193, figs. 31-33.

Material examined. 2 specimens.

Distribution. ATTICA and EUBOEA. Mount Parnis, north slope, dry valley, alt. 860 m, litter from under *Abies cephalonica*, Berlese extraction, 1 juv. 6, 1976-05-15 (Loc. The-76/21).

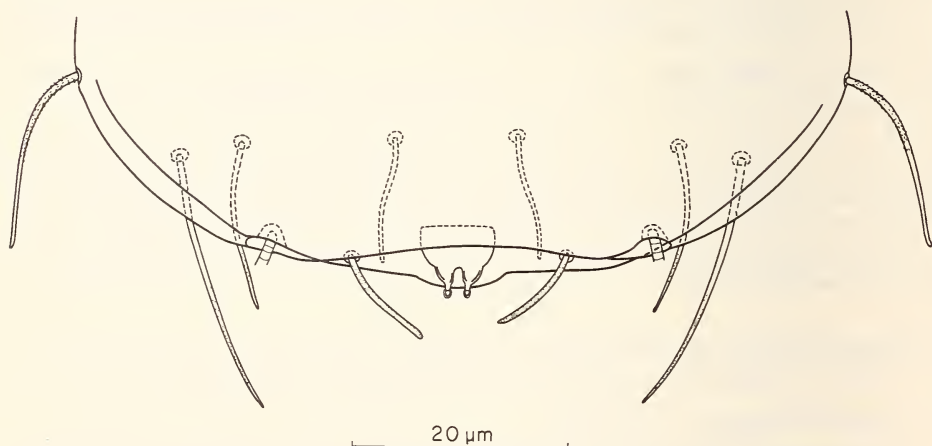


FIG. 1.

Allopaupopus (D.) *rostratus* Krestewa, third instar larva. Pygidium, ventral view.

SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Ceratonia siliqua*, Berlese extraction, 1 subad. 8(♀), 1979-03-12 (Loc. Kar-79/9a). — New to Greece.

So far the species is known from northeastern Bulgaria only. Its distribution is similar to that in *A. (A.) humilis* Remy the known area of which is also restricted to Bulgaria and Greece.

KRESTEWA, who erected the species, reported an adult female from Karabashle and a subadult male from between Rasgrad and Kalovo but from a passage in her description of the trunk it seems as if she was in possession of many specimens. The original description was emended by REMY in 1945. The Greek specimens agree well with the material studied by the above authors but the styli are cylindrical, not tapering, and the base of the anal plate broad, not narrowed.

Genus *Stylopauropus* Cook, 1896

Subgenus *Stylopauropus* s. str.

9. *Stylopauropus* (S.) *pedunculatus* (Lubbock, 1867)

Trans. Linn. Soc. Lond. 26: 185, pl. X, fig. 20.

Material examined. 17 specimens.

Distribution. PELOPONNESUS. Between Sparta and Kalamata, alt. 1150 m, near the road, soil not calcareous, sample from under *Pinus* sp., Berlese extraction, 1 ad. 9(♀), 1 subad. 8(♀), 1 juv. 6, 1 juv. 5, 1976-05-20 (Loc. The-76/32). Near Vitina, the cave Draco Trypa, alt. 1440 m, 3 ad. 9(♀), 1 subad. 8(♀), 1977-04-21 (Loc. Cy-77/24).

THESSALY. Ossa Massif, above Ampelakia, cave without name near the church Profitis Elias, alt. 600 m, 1 juv. 6, 1978-04-10 (Loc. Kri-78/27). Same place, near the cave at Profitis Elias, soil sample from under *Quercus coccifera*, Berlese extraction, 1 ad. 9(♀), 1 subad. 8(♀), 1978-04-10 (Loc. Kri-78/29).

SOUTHERN ISLAND ARC. Crete, Lasithi Plateau, above Mesa Lathitakion, Mount Aloitha, alt. 1000 m, soil sample from under a *Quercus coccifera*, Berlese extraction, 1 juv. 6, 1978-04-06 (Loc. Kri-78/19). Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Ceratonia siliqua*, Berlese extraction, 1 ad. 9(♀), 2 juv. 6, 2 juv. 5, 1979-03-12 (Loc. Kar-79/9a and 9b).

The species seems to be widespread in Greece but it has not earlier been reported from Thessaly.

Subfamily SCLEROPAUROPODINAE

Genus *Scleropauropus* Silvestri, 1902

Subgenus *Scleropauropus* s. str.

10. *Scleropauropus* (S.) *lyrifer* Remy, 1936

Zool. Anz. 116: 316-317, fig. 4.

Material examined. 1 specimen.

Distribution. CENTRAL GREECE. Acarnania, near Astakos, alt. 120 m, soil sample from under *Quercus* sp., Berlese extraction, 1 juv. 3, 1976-05-16 (Loc. The-76/25).

This rare species was earlier reported from one locality in the Ionian islands only.

Family EURYPAUROPODINAE

Genus *Eurypauropus* Ryder, 1879

11. *Eurypauropus hastatus* Attems, 1895

Sber. Akad. Wiss. Wien, 104: 173-175, pl. I, figs. 15-18.

Material examined. 1 specimen.

Distribution. CENTRAL GREECE. Phocis, Vardousia Mts., in the vicinity of Athanassios Diakos, near Profitis Elias, alt. 1470 m, soil sample from under *Abies cephalonica*, Berlese extraction, 1 juv. 6, 1979-03-08 (Loc. Kar-79/1b). — New to Greece.

General distribution. The species is known from the southern half of Europe only: Austria, Roumania, Yugoslavia and ? southern France.

Genus *Gravieripus* Remy, 1937

12. *Gravieripus cordatus* Scheller, 1974

Revue suisse Zool. 81: 622-626, figs. 3-5.

Material examined. 3 specimens.

Distribution. SOUTHERN ISLAND ARC. Karpathos, Lastos Massif, at the road Aperi-Spoa, alt. 430 m, soil sample from under *Pinus brutia*, Berlese extraction, 1 subad. 8(♀), 1979-03-12 (Loc. Kar-79/8a). Same place, soil sample from under *Ceratonia siliqua*, Berlese extraction, 1 juv. 3, (Loc. Kar-79/9a), and 1 subad. 8(♀), (Loc. Kar-79/9b), 1979-03-12.

Genus *Trachypauropus* Tömösváry, 1882

13. *Trachypauropus glomerioides* Tömösváry, 1882

Magyar Tud. Akad. math. term.-tud. 18: 362-363, figs. 4-8.

Material examined. 3 specimens.

Distribution. CENTRAL GREECE. Phocis, Vardousia Mts., in the vicinity of Athanassios Diakos, near Profitis Elias, alt. 1470 m, moss sample from under *Abies cephalonica*, Berlese extraction, 1 juv. 6, 1979-03-08 (Loc. Kar-79/2a).

SOUTHERN ISLAND ARC. Crete, at the road Sitia-Iraklion, small ravine near Sfaka, alt. 200 m, soil sample from under *Quercus coccifera*, Berlese extraction, 2 ad. 9(♀), 1979-03-13 (Loc. Kar-79/12b).

COMMENTS

Thirteen species were found. Most of them are widely distributed in Greece and outside (SCHELLER 1977) but two species, *Allopaupopus* (D.) *rostratus* Krestewa and *Eurypaupopus hastatus* Attems are new to Greece. And three species which were known from one or two localities only, *Allopaupopus aristatus*, *A. corsicus* and *Scleropauopus lyrifer*, have been discovered in new places. Moreover, one species is reported new to Peloponnesus, two are new to Thessaly, 5 to Central Greece and 6 to the Southern Island Arc. Dr Hauser's collection shows that the Pauropoda are much better represented in the latter two regions than was hitherto supposed.

The material shows also that the general picture of the distribution of the Greek Pauropoda given in SCHELLER 1977: 402-403 seems to be true. Thirtytwo species are now known and the main part of them are widely distributed and the occurrence of a southeastern element, which was also suggested there, has been supported by the prescence of *A. rostratus* in two localities.

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